

# List of All Chemicals

## P Calotropis sp. (Asclepiadaceae)

### Common name(s)

Giant Milkweed

### How used

Medicinal

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Part	All	Low PPM	High PPM	StdDev	*Reference
FAT	Seed		268000.0	366000.0	0.53	*
PROTEIN	Seed		270000.0	301000.0	0.6	*
OLEIC-ACID	Seed		139000.0	190000.0	0.58	*
<b>Activities (18)</b>						
5-Alpha-Reductase-Inhibitor						
Allergenic						
Alpha-Reductase-Inhibitor						
Anemiagenic						
Antialopecic						
Antiandrogenic						
Antiinflammatory IC50=21 uM						
Antileukotriene-D4 IC50=21 uM						
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.					
Choleretic 5 ml/man						
Dermatitigenic						
FLavor FEMA 1-30	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry					
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)					
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.					
Irritant	Merck 11th Edition					
Percutaneostimulant	Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugibayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990.					
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry					
Propecic						
LINOLEIC-ACID	Seed		86000.0	117000.0	0.08	*

## Activities (27)

5-Alpha-Reductase-Inhibitor					
AntiMS	Economic & Medicinal Plant Research, 6: 189.				
Antiacne					
Antialopecic					
Antianaphylactic	Economic & Medicinal Plant Research, 6: 189.				
Antiandrogenic					
Antiarteriosclerotic					
Antiarthritic	Economic & Medicinal Plant Research, 6: 189.				
Anticoronal	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Antieczeemic	Economic & Medicinal Plant Research, 6: 189.				
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.				
Antigranular					
Antihistaminic	Economic & Medicinal Plant Research, 6: 189.				
Antiinflammatory IC50=31 uM					
Antileukotriene-D4 IC50=31 uM					
Antimennorrhagic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Antiprostatic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.				
Carcinogenic	Science News, 146: 421.				
Comedolytic					
Hepatoprotective					
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)				
Immunomodulator	Economic & Medicinal Plant Research, 6: 189.				
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.				
Metastatic	Science News, 146: 421.				
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.				
Propecic					

## WATER

Seed -- 74000.0 -0.59 \*

## ASH

Seed -- 65500.0 0.53 \*

## PALMITIC-ACID

Seed 39900.0 54900.0 0.43 \*

## Activities (13)

5-Alpha-Reductase-Inhibitor					
Antialopecic					
Antiandrogenic					
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.				
Antioxidant IC40=60					
FLavor FEMA 1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Hemolytic	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.				
Hypercholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)				
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.				
Pesticide					
Propecic					
Soap	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				

## CAOUTCHOUC

Latex Exudate 8000.0 25000.0 -0.67 \*

## COROGLAUCOGENIN

Seed -- 4370.0 \*

## LINOLENIC-ACID

Seed 2400.0 3300.0 -0.52 \*

## FRUGOSIDE

Seed 224.0 2310.0 \*

## CALOTROPINE

Seed -- 94.0 \*

## COROTOXIGENIN

Seed -- 66.0 \*

## BENZOYLLINEOLONE

Root -- -- \*

## ISOLACTUCEROL

Latex Exudate -- -- \*

3-O-ACETYL-CALOTROPIN	Plant	--	--	*
UZARIGENIN	Latex Exudate	--	--	*
<b>Activities (2)</b>				
Antitumor				
Cytotoxic				
PROCEROSIDE	Latex Exudate	--	--	*
BENZOYLISOLINEOLONE	Root	--	--	*
ISOGIGANTEOL	Plant	--	--	*
USCHARIN	Latex Exudate	--	--	*
<b>Activities (1)</b>				
Cardioactive				
HISTAMINE	Latex Exudate	--	--	*
<b>Activities (18)</b>				
Allergenic				
AntiMeniere's	Martindale's 28th			
Antichilblain	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antimigraine	Martindale's 28th			
Bronchoconstrictor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Bronchostimulant	Martindale's 28th			
Cardiovascular 0.15 mg/kg ivn rbt	Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. Drug Dosage in Laboratory Animals: A Handbook. (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006.			
Gastrostimulant	Martindale's 28th			
Histaminic Antidote:Adrenaline	Martindale's 29th			
Hypotensive	Martindale's 28th			
Irritant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Myostimulant	Martindale's 29th			
Radioprotective	Martindale's 28th			
Secretogogue	Martindale's 29th			
Spasmogenic				
Tachycardic	Martindale's 29th			
Ulcerogenic 100 mg/kg ipr rat				
Vasodilator	Martindale's 29th			
USCHARIDIN	Latex Exudate	--	--	*
<b>Activities (2)</b>				
Arrow-Poison	Merck 11th Edition			
Cardioactive	Merck 11th Edition			
CALOTROPIN	Latex Exudate	--	--	*
<b>Activities (3)</b>				
Antitumor ED50=25 ppb				
Cardioactive				
Proteolytic				
ASCLEPIIN	Bark	--	--	*
GLUCOSE	Leaf	--	--	*

## Activities (7)

Acetylcholinergic

Antiedemic Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

Antihepatotoxic Merck 11th Edition

Antiketotic Merck 11th Edition

Antivaricose Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

Hyperglycemic Merck 11th Edition

Memory-Enhancer Science News, 138: 189, 1990.

CALOTROPAGENIN	Leaf	--	--	*
TRYPSIN	Latex Exudate	--	--	*
MUDARINE	Leaf	--	--	*
ARABINOSE	Leaf	--	--	*
GIGANTIN	Plant	--	--	*
CALOTOXIN	Latex Exudate	--	--	*

## Activities (1)

Cardioactive

TARAXASTEROL-BENZOATE	Plant	--	--	*
MELISSYL-ALCOHOL	Seed	--	--	*
ALPHA-LACTUCERYL-ISOVALERATE	Latex Exudate	--	--	*
GIGANTEOL	Plant	--	--	*
CALACTIN	Latex Exudate	--	--	*

## Activities (1)

Cardioactive

TARAXASTEROL	Bark	--	--	*
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## Activities (2)

Antiedemic

Antiinflammatory 1/2 indomethacin

ALPHA-LACTUCERYL-ACETATE	Latex Exudate	--	--	*
BETA-SITOSTEROL	Bark	--	--	*

## Activities (47)

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antihyperlipoproteinemic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antileukemic	
Antilymphomtic	
Antimutagenic 250 ug/ml	
Antiophidic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostatadenomic	Merck 11th Edition
Antiprostatic 10-20 mg 3 x/day/orl man	
Antipyretic	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs</i> . Chapman & Hall, New York. 941 pp.
Antitumor (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103.
Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . <i>Plant Science</i> , 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . <i>Phytochemistry</i> . 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	
Estrogenic	
Febrifuge	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs</i> . Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Ubiquiot	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

SYRIOGENIN	Latex Exudate	--	--	*
ALPHA-LACTUCEROL	Latex Exudate	--	--	*
BETA-CALOTROPEOL	Plant	--	--	*
STIGMASTEROL	Seed	--	--	*

**Activities (12)**

Antihepatotoxic	
Antiinflammatory	Lawrence Review of Natural Products, 1995
Antinociceptive	
Antiphidic 2.3 mg ipr mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC33=10 uM	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . <i>Plant Science</i> , 75: 161-165, 1991.
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . <i>Phytochemistry</i> . 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Estrogenic	
Hypocholesterolemic	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Ovulant	
Sedative	

LINEOLONE	Root	--	--	*
ALPHA-CALOTROPEOL	Plant	--	--	*
D-GLUCOSAMINE	Leaf	--	--	*

**Activities (3)**

Antiflu	Vlietinck, A.J. and Domisse, R.A. eds. 1985. <i>Advances in Medicinal Plant Research</i> . Wiss. Verlag. Stuttgart.
Antiherpetic	Vlietinck, A.J. and Domisse, R.A. eds. 1985. <i>Advances in Medicinal Plant Research</i> . Wiss. Verlag. Stuttgart.
Antiviral	Vlietinck, A.J. and Domisse, R.A. eds. 1985. <i>Advances in Medicinal Plant Research</i> . Wiss. Verlag. Stuttgart.

RHAMNOSE	Leaf	--	--	*
BETA-AMYRIN-BENZOATE	Plant	--	--	*
LAURANE	Seed	--	--	*
ALPHA-AMYRIN-BENZOATE	Plant	--	--	*
PSEUDOCALOTROPAGENIN	Plant	--	--	*
BETA-AMYRIN	Bark	--	--	*

**Activities (9)**

Analgesic	
Antiedemic IC27=40 mg/kg ipr rat	
Antiinflammatory	
Antinociceptive	
Antiulcer	
Gastroprotective	
Hepatoprotective	
Larvicide	
Mosquitocide	

ISOLINEOLONE	Root	--	--	*
ALPHA-AMYRIN	Bark	--	--	*

**Activities (10)**

Analgesic	
Antiedemic IC43=40 mg/kg ipr rat	
Antiinflammatory IC71=1,000 ppm orl	
Antinociceptive	
Antitumor	
Antiulcer	
Cytotoxic 50-400	
Gastroprotective	
Hepatoprotective	
Insectifuge	

VORUSCHARIN	Latex Exudate	--	--	*
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